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Certificate No.: TC-5548

# QC ABSTRACT

**E OF WORK:** Construction of Indoor Stadium with all Amenities at Sahakaranagara in Ward No:08
ehalli, Kodigehalli Sub Division.

| | Item Of Work | Name of Test | Frequency of Test/Quantity | Executed Quantity | Number of Tests Required | Number of Tests Conducted |
|---|---|---|---|---|---|---|
| | | **Materials** | | | | |
| | Cement | Fineness by dry sieving | One Test | | 1 | 1 |
| | | Finess by Air permeablity method | One Test | | 1 | 1 |
| | | Density | One Test | | 1 | 1 |
| | | Standard Consistency | One Test | | 1 | 1 |
| | | Initial Setting time | One Test | | 1 | 1 |
| | | Final Setting time | One Test | | 1 | 1 |
| | | Soundness (Le Chatelier's Method) | One Test | | 1 | 1 |
| | | Compressive Strength | One Test | | 1 | 1 |
| | Coarse aggregate(40 mm down size) | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | Flakiness Index | One Test | | 1 | 1 |
| | | Elongation Index | One Test | | 1 | 1 |
| | | Specific Gravity | One Test | | 1 | 1 |
| | | Bulk Density(Loose) | One Test | | 1 | 1 |
| | | Bulk Density(Compacted) | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| 3 | Coarse aggregate(20 mm down size) | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | Flakiness Index | One Test | | 1 | 1 |
| | | Elongation Index | One Test | | 1 | 1 |
| | | Specific Gravity | One Test | | 1 | 1 |
| | | Bulk Density(Loose) | One Test | | 1 | 1 |
| | | Bulk Density(Compacted) | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| | | Aggregate crushing Value | One Test | | 1 | 1 |
| | | Aggregate Impact Value | One Test | | 1 | 1 |
| 4 | Fine aggregate | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| | | Specific Gravity | One Test | | 1 | 1 |
| | | Material finer than 75 micron | One Test | | 1 | 1 |
| 5 | Brick | Compressive Strength | One Test | | 1 | 1 |
| | | WATER ABSORPTION | One Test | | 1 | 1 |
| | | EFFLORESCENCE | One Test | | 1 | 1 |
| | | DIMENSIONS AND TOLERANCES | One Test | | 1 | 1 |
| 6 | PCC(M15) | Compressive Strength(7days and 28days) | 4 set /1-5 cum | 35.09 | 8 | 8 |
| 7 | PCC(M15) | Compressive Strength(7days and 28days) | 2 Set | | 4 | 4 |
| 8 | CERAMIC TILES | Measurement of Length, Width and Thickness | One Test | | 1 | 1 |
| | | Modulus of Rupture and Breaking Strenth | One Test | | 1 | 1 |

Sm. Sravanthi DE
for necessary action
early

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## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

**Date: 23-09-21**

| | | |
|---|---|---|
| **Lab ID** | : | CP-2021-11-29-55 |
| **Project Name** | : | Construction of Indoor Stadium with all Amenities at Sahakaranagara in Ward No:08 Kodigehalli, Kodigehalli Sub Division. |
| **Agency** | : | Sri.Abbu Sambasiva Reddy, #1-B-3, Sree Arcade Layout, 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097. |
| **Customer's Reference** | : | EE(Project)/Ynk Zone/WO/114/2017-18 |
| **Date of Receipt** | : | 20-09-21 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,<br>IS 4031 (Part 1,2 3,4,5, 6,11):1988<br>IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4<br>IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5<br>IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6<br>IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5<br>IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6 |
| **Date of test** | : | 21-09-21 |
| **Environmental Conditions during test** | : | Temperature: 26°C<br>Humidity: 72% |

| Sl.No. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | Fineness by dry sieving (%) | 1.08 | – |
| 2 | Finess by Air permeablity method ($m^2$/kg,Min) | 298.5 | 225$m^2$/kg, Min |
| 3 | Density (gm/cc) | 3.14 | – |
| 4 | Standard Consistency (%) | 29.5% | Not specified |
| 5 | Initial Setting time | 145 minutes | Not less than 30 minutes |
| 6 | Final Setting time | 275 minutes | Not more than 600 minutes |
| 7 | Soundness (Le Chatelier's Method) | 1.5mm | Not more than 10 mm |

* The results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
**Quality Manager**



****End of Report****

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## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

**Date: 19-10-21**

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-11-29-55** |
| **Project Name** | : | Construction of Indoor Stadium with all Amenities at Sahakaranagara in Ward No:08 Kodigehalli, Kodigehalli Sub Division. |
| **Agency** | : | Sri.Abbu Sambasiva Reddy, #1-B-3, Sree Arcade Layout, 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097. |
| **Customer's Reference** | : | EE(Project)/Ynk Zone/WO/114/2017-18 |
| **Date of Receipt** | : | 20-09-21 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,<br>IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 6, Determination of Compressive Strength, Clause 6 |
| **Date of test** | : | 21-09-21 |
| **Environmental Conditions during test** | : | Temperature: 26°C<br>Humidity: 72% |

**Compressive Strength**

| Sl.No. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | 3 Days | 28.5N/mm$^2$ | Not less than 27 N/mm$^2$ |
| 2 | 7 Days | 39.0N/mm$^2$ | Not less than 37 N/mm$^2$ |
| 3 | 28 Days | 58.5N/mm$^2$ | Not less than 53 N/mm$^2$ |

* The results obtained are satisfactory as per standard requirements.

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## TEST REPORT ON COARSE AGGREGATES

Date: 23-09-21

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-11-29-55** |
| **Project Name** | : | Construction of Indoor Stadium with all Amenities at Sahakaranagara in Ward No:08 Kodigehalli, Kodigehalli Sub Division. |
| **Agency** | : | Sri.Abbu Sambasiva Reddy, #1-B-3, Sree Arcade Layout, 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097. |
| **Customer's Reference** | : | EE(Project)/Ynk Zone/WO/114/2017-18 |
| **Date of Receipt** | : | 20-09-21 |
| **Sample Type** | : | 40mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2011<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 20-09-21 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:**

**Total weight taken : 15000 grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 80 mm | 0 | 0 | 0.0 | 100 | 100 |
| 2 | 40 mm | 189 | 189 | 1.3 | 98.7 | 90-100 |
| 3 | 20 mm | 7284 | 7473 | 49.8 | 50.2 | 30-70 |
| 4 | 10 mm | 4089 | 11562 | 77.1 | 22.9 | 10-35 |
| 5 | 4.75 mm | 3001 | 14563 | 97.1 | 2.9 | 0-5 |
| 6 | Pan | 437 | 15000 | 100.0 | 0 | --- |



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## TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-11-29-55 Date: 23-09-21

**PHYSICAL PROPERTIES**

| Sl.no | Tests | Result | Requirements as per IS:383-2016 |
|---|---|---|---|
| 1 | Flakiness Index(%) | 11.5 | Combined Flakiness & Elongation Index Shall not Exceed 40% for Unerushed & Crushed Aggregate |
| 2 | Elongation Index(%) | 12.8 | |
| 3 | Specific Gravity | 2.66 | – |
| 4 | Bulk Density(Loose) (Kg/l) | 1.42 | – |
| 5 | Bulk Density(Compacted) (Kg/l) | 1.48 | – |
| 6 | Water Absorption(%) | 0.21 | – |

* The results obtained are satisfactory as per standard requirements.

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Quality Manager


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## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-11-29-55** **Date: 22-09-21** |
| **Project Name** | : | Construction of Indoor Stadium with all Amenities at Sahakaranagara in Ward No:08 Kodigehalli, Kodigehalli Sub Division. |
| **Agency** | : | Sri.Abbu Sambasiva Reddy, #1-B-3, Sree Arcade Layout, 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097. |
| **Customer Reference** | : | EE(Project)/Ynk Zone/WO/114/2017-18 |
| **Date of Receipt** | : | 20-09-21 |
| **Sample Type/ Size** | : | 20mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2011<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 20-09-21 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:**

**Total weight taken** : **5000** **grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 40 mm | 0 | 0 | 0 | 100 | 100 |
| 2 | 20 mm | 199 | 199 | 4.0 | 96.0 | 90-100 |
| 3 | 10 mm | 3050 | 3249 | 65.0 | 35.0 | 25-55 |
| 4 | 4.75 mm | 1502 | 4751 | 95.0 | 5.0 | 0-10 |
| 5 | Pan | 249 | 5000 | 100 | 0 | – |



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## TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-11-29-55 Date: 22-09-21

**PHYSICAL PROPERTIES**

| Sl.no | Tests | Result | Requirements as per IS:383-2016 |
|---|---|---|---|
| 1 | Flakiness Index(%) | 11.4 | Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate |
| 2 | Elongation Index(%) | 12.7 | |
| 3 | Specific Gravity | 2.62 | – |
| 4 | Bulk Density(Loose) (Kg/l) | 1.48 | – |
| 5 | Bulk Density(Compacted) (Kg/l) | 1.55 | – |
| 6 | Water Absorption(%) | 0.27 | – |
| 7 | Aggregate crushing Value(%) | 23.9 | Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface. |
| 8 | Aggregate Impact Value(%) | 23.1 | 30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface. |

* The results obtained are satisfactory as per standard requirements.

Signed by AE

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Authorized Signature
Quality Manager


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# TEST REPORT OF FINE AGGREGATE

Date: 22-09-21

| | | |
|---|---|---|
| **Lab ID** | : | CP-2021-11-29-55 |
| **Project Name** | : | Construction of Indoor Stadium with all Amenities at Sahakaranagara in Ward No:08 Kodigehalli, Kodigehalli Sub Division. |
| **Agency** | : | Sri.Abbu Sambasiva Reddy, #1-B-3, Sree Arcade Layout, 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097. |
| **Customer's Reference** | : | EE(Project)/Ynk Zone/WO/114/2017-18 |
| **Date of Receipt** | : | 20-09-21 |
| **Sample Type** | : | Fine Aggregate |
| **Reference to BIS codes** | : | IS 383 : 2016 (Specification for Coarse and fine Aggregates)<br>IS: 2386 :1963(Part - 1, 3) RA2012<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption |
| **Date of test** | : | 20-09-21 |
| **Total weight taken** | : | 1000 grams |

| Sl.no | Sieve Size | Weight Retained (gms) | Cumulative Weight Retained (gms) | % Cumulative Weight Retained | % Passing | Requirement as per IS 383:2016 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Grading Zone I | Grading Zone II | Grading Zone III | Grading Zone IV |
| 1 | 10 mm | 0 | 0 | 0.0 | 100.0 | 100 | 100 | 100 | 100 |
| 2 | 4.75 mm | 27 | 27 | 2.7 | 97.3 | 90-100 | 90-100 | 90-100 | 95-100 |
| 3 | 2.36 mm | 55 | 82 | 8.2 | 91.8 | 60-95 | 75-100 | 85-100 | 95-100 |
| 4 | 1.18 mm | 239 | 321 | 32.1 | 67.9 | 30-70 | 55-90 | 75-100 | 90-100 |
| 5 | 600 micron | 205 | 526 | 52.6 | 47.4 | 15-34 | 35-59 | 60-79 | 80-100 |
| 6 | 300 micron | 203 | 729 | 72.9 | 27.1 | 5-20 | 8-30 | 12-40 | 15-50 |
| 7 | 150 micron | 191 | 920 | 92.0 | 8.0 | 0-10 | 0-10 | 0-10 | 0-15 |
| 8 | Pan | 80 | 1000 | 100.0 | 0.0 | --- | --- | --- | --- |

**Result :The tested Sample Conforms to Grading Zone II**



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## TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-11-29-55 Date: 22-09-21

**PHYSICAL PROPERTIES**

| Sl.no | Tests | Result | Requirements as per IS 383:2016 |
|---|---|---|---|
| 1 | Water Absorption(%) | 1.5 | - |
| 2 | Specific Gravity | 2.59 | - |
| 3 | Material finer than 75 micron(%) | 6.9 | Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10% |

* The results obtained are satisfactory as per standard requirements

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## TEST REPORT OF CERAMIC TILES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-11-29-55** **Date: 16-10-21** |
| **Project Name** | : | Construction of Indoor Stadium with all Amenities at Sahakaranagara in Ward No:08 Kodigehalli, Kodigehalli Sub Division. |
| **Agency** | : | Sri.Abbu Sambasiva Reddy, #1-B-3, Sree Arcade Layout, 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097. |
| **Customer's Reference** | : | EE(Project)/Ynk Zone/WO/114/2017-18 |
| **Date of Receipt** | : | 11-10-21 |
| **Sample Type/ Size** | : | Ceramic tiles (300X300)mm |
| **Reference to BIS codes** | : | IS 13630 (part 1) : 2006, IS 15622:2006 |
| **Date of test** | : | 11-10-21 |

### MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS

| Number Of Specimen | Length measured at position 5mm from the corner | | Breadth measured at position 5mm from the corner | | Thickness measured at thickest part, 4 diagonal segment | | | |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 1 | 2 | 1 | 2 | 3 | 4 |
| 1 | 300 | 300 | 300 | 300 | 6.04 | 6.01 | 6.08 | 6.04 |
| 2 | 300 | 300 | 300 | 300 | 6.01 | 6.07 | 6.01 | 6.01 |
| 3 | 300 | 300 | 300 | 300 | 6.03 | 6.05 | 6.06 | 6.03 |
| 4 | 300 | 300 | 300 | 300 | 6.06 | 6.05 | 6.08 | 6.06 |
| 5 | 300 | 300 | 300 | 300 | 6.08 | 6.06 | 6.05 | 6.08 |
| 6 | 300 | 300 | 300 | 300 | 6.03 | 6.07 | 6.07 | 6.07 |
| 7 | 300 | 300 | 300 | 300 | 6.08 | 6.05 | 6.08 | 6.07 |
| 8 | 300 | 300 | 300 | 300 | 6.02 | 6.05 | 6.04 | 6.05 |
| 9 | 300 | 300 | 300 | 300 | 6.04 | 6.04 | 6.02 | 6.04 |
| 10 | 300 | 300 | 300 | 300 | 6.04 | 6.01 | 6.05 | 6.04 |
| **Average** | **300** | | **300** | | **6.05** | | | |



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## TEST REPORT OF CERAMIC TILES

### WATER ABSORPTION

| Sl.no | Weight of oven dry sample | Saturated weight of sample | Water absorption by mass | Average value of water absorption |
|---|---|---|---|---|
| 1 | 1406 | 1455 | 3.49 | 2.85 |
| 2 | 1424 | 1464 | 2.81 | |
| 3 | 1464 | 1498 | 2.32 | |
| 4 | 1408 | 1454 | 3.27 | |
| 5 | 1434 | 1468 | 2.37 | |

### MODULUS OF RUPTURE AND BREAKING STRENGTH

Sl.No

| Sl.No. | Dimension (mm) | | | Wet Transverse Strength | Average |
|---|---|---|---|---|---|
| | L | B | T | ($N/mm^2$) | ($N/mm^2$) |
| 1 | 300 | 300 | 6.04 | 14.8 | 14.66 |
| 2 | 300 | 300 | 6.06 | 14.2 | |
| 3 | 300 | 300 | 6.02 | 14.9 | |
| 4 | 300 | 300 | 6.06 | 14.8 | |
| 5 | 300 | 300 | 6.05 | 14.6 | |

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

## TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-11-29-55** **Date: 03-10-21** |
| **Project Name** | : | Construction of Indoor Stadium with all Amenities at Sahakaranagara in Ward No:08 Kodigehalli, Kodigehalli Sub Division. |
| **Agency** | : | Sri.Abbu Sambasiva Reddy, #1-B-3, Sree Arcade Layout, 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097. |
| **Customer's Reference** | : | EE(Project)/Ynk Zone/WO/114/2017-18 |
| **Date of Receipt** | : | 27-09-21 |
| **Identification Mark on Brick** | : | MTB |
| **Reference to BIS codes** | : | IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification<br>IS 3495 (Part 1 to 3) : 1992(RA 2011)<br>Method of Tests Burnt Clay Building Bricks<br>Part 1:Determination of Compressive Strength, (Cl 4.2.3)<br>Part 2:Determination of Water Absorption,(Cl 4.1.3)<br>Part 3: Determination of Efflorescence, (Cl 4) |
| **Date of test** | : | 27-09-21 |

### COMPRESSIVE STRENGTH

| Sl.No. | Length (mm) | Breadth (mm) | Area ($mm^2$) | Failure Load (KN) | Compressive strength of individual bricks ($N/mm^2$) | Acceptablity as per IS 1077:1992, Clause 7.1 |
|---|---|---|---|---|---|---|
| 1 | 228.13 | 109.98 | 25090 | 206.7 | 8.2 | The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%. |
| 2 | 228.98 | 108.62 | 24872 | 197.6 | 7.9 | |
| 3 | 231.01 | 107.99 | 24947 | 201.3 | 8.1 | |
| 4 | 230.11 | 107.54 | 24746 | 199.5 | 8.1 | |
| 5 | 228.16 | 106.98 | 24409 | 194.6 | 8.0 | |
| **Average of 5 bricks** | | | | | **8.1** | |

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Lab ID : CP-2021-11-29-55 Date: 03-10-21

## WATER ABSORPTION:

| Sl.No. | Dry Weight | Wet Weight | Water Absorption(%) | Acceptablity as per IS 1077:1992, Clause 7.2 |
|---|---|---|---|---|
| 1 | 2.975 | 3.265 | 9.7 | The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes. |
| 2 | 2.868 | 3.176 | 10.7 | |
| 3 | 2.906 | 3.196 | 10.0 | |
| 4 | 2.976 | 3.275 | 10.0 | |
| 5 | 2.875 | 3.218 | 11.9 | |
| Average Water Absorption(%) | | | 10.5 | |

## EFFLORESCENCE:

| Sl.No. | Length (mm) | Breadth (mm) | Area ($mm^2$) | Efflorescence | Acceptablity as per IS 1077:1992, Clause 7.3 |
|---|---|---|---|---|---|
| 1 | 229.18 | 108.98 | 24976 | Slight | The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higer classes. |
| 2 | 228.98 | 109.18 | 25000 | Moderate | |
| 3 | 228.18 | 108.39 | 24732 | Slight | |
| 4 | 230.19 | 107.98 | 24856 | Moderate | |
| 5 | 228.13 | 109.19 | 24910 | Slight | |

## DIMENSIONS AND TOLERANCES

| Sl.No. | Dimensions obtained for 20 bricks(mm) | | Acceptability as per IS 1077:1992, Clause 6.2(b) |
|---|---|---|---|
| 1 | Length | 4610 | 4520 to 4680 mm |
| 2 | Width | 2185 | 2160 to 2240 mm |
| 3 | Height | 1390 | 1360 to 1440 mm |

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-11-29-55

Date: 12/10/2021

Project Name : Construction of Indoor Stadium with all Amenities at Sahakaranagara in Ward No:08 Kodigehalli, Kodigehalli Sub Division.

Agency : Sri.Abbu Sambasiva Reddy, #1-B-3, Sree Arcade Layout, 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.

Customer's Reference : EE(Project)/Ynk Zone/WO/114/2017-18

Date of Receipt : 07-10-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/10/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M15 | 05/10/2021 | 12/10/2021 | 150.60 X 151.90 X 150.75 | 22876 | 8.374 | 281.0 | 12.3 | 12.7 |
| 2 | PCC | M15 | 05/10/2021 | 12/10/2021 | 150.85 X 151.88 X 149.42 | 22911 | 8.732 | 293.8 | 12.8 | |
| 3 | PCC | M15 | 05/10/2021 | 12/10/2021 | 151.03 X 150.57 X 150.69 | 22740 | 8.542 | 293.0 | 12.9 | |

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-11-29-55 Date: 02/11/2021

Project Name : Construction of Indoor Stadium with all Amenities at Sahakaranagara in Ward No:08 Kodigehalli, Kodigehalli Sub Division.

Agency : Sri.Abbu Sambasiva Reddy, #1-B-3, Sree Arcade Layout, 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.

Customer's Reference : EE(Project)/Ynk Zone/WO/114/2017-18

Date of Receipt : 07-10-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/11/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength (N/mm$^2$) | Average Compressive Strength (N/mm$^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M15 | 05/10/2021 | 02/11/2021 | 151.26 X 149.94 X 149.39 | 22680 | 8.880 | 391.5 | 17.3 | 17.3 |
| 2 | PCC | M15 | 05/10/2021 | 02/11/2021 | 151.19 X 151.25 X 150.47 | 22867 | 8.942 | 396.6 | 17.3 | |
| 3 | PCC | M15 | 05/10/2021 | 02/11/2021 | 149.33 X 151.50 X 149.11 | 22624 | 8.128 | 389.9 | 17.2 | |

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-11-29-55 Date: 12/10/2021

Project Name : Construction of Indoor Stadium with all Amenities at Sahakaranagara in Ward No:08 Kodigehalli, Kodigehalli Sub Division.

Agency : Sri.Abbu Sambasiva Reddy, #1-B-3, Sree Arcade Layout, 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.

Customer's Reference : EE(Project)/Ynk Zone/WO/114/2017-18

Date of Receipt : 07-10-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/10/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M15 | 05/10/2021 | 12/10/2021 | 151.68 X 150.73 X 151.79 | 22862 | 8.374 | 285.6 | 12.5 | 12.7 |
| 2 | PCC | M15 | 05/10/2021 | 12/10/2021 | 149.62 X 151.81 X 150.80 | 22713 | 8.732 | 289.5 | 12.7 | |
| 3 | PCC | M15 | 05/10/2021 | 12/10/2021 | 151.25 X 149.19 X 151.19 | 22565 | 8.542 | 290.7 | 12.9 | |

* The results obtained are satisfactory as per standard requirements.

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-11-29-55** **Date: 16/10/2021**

**Project Name** : Construction of Indoor Stadium with all Amenities at Sahakaranagara in Ward No:08 Kodigehalli, Kodigehalli Sub Division.

**Agency** : Sri.Abbu Sambasiva Reddy, #1-B-3, Sree Arcade Layout, 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.

**Customer's Reference** : EE(Project)/Ynk Zone/WO/114/2017-18

**Date of Receipt** : 11-10-21

**Customer ID** : PCC

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M15 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 16/10/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M15 | 09/10/2021 | 16/10/2021 | 149.85 X 150.18 X 151.89 | 22504 | 8.374 | 279.3 | 12.4 | 12.4 |
| 2 | PCC | M15 | 09/10/2021 | 16/10/2021 | 149.50 X 151.66 X 151.78 | 22672 | 8.732 | 287.4 | 12.7 | |
| 3 | PCC | M15 | 09/10/2021 | 16/10/2021 | 149.83 X 151.67 X 149.47 | 22724 | 8.542 | 278.1 | 12.2 | |

* The results obtained are satisfactory as per standard requirements.

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# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2021-11-29-55

Date: 06/11/2021

Project Name : Construction of Indoor Stadium with all Amenities at Sahakaranagara in Ward No:08 Kodigehalli, Kodigehalli Sub Division.

Agency : Sri.Abbu Sambasiva Reddy, #1-B-3, Sree Arcade Layout, 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.

Customer's Reference : EE(Project)/Ynk Zone/WO/114/2017-18

Date of Receipt : 11-10-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/11/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M15 | 09/10/2021 | 06/11/2021 | 149.11 X 149.45 X 149.26 | 22284 | 8.880 | 400.0 | 17.9 | 17.5 |
| 2 | PCC | M15 | 09/10/2021 | 06/11/2021 | 150.06 X 151.96 X 151.67 | 22803 | 8.942 | 392.9 | 17.2 | |
| 3 | PCC | M15 | 09/10/2021 | 06/11/2021 | 150.78 X 151.66 X 149.35 | 22869 | 8.128 | 398.6 | 17.4 | |

The results obtained are satisfactory as per standard requirements.

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# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2021-11-29-55
Project Name : Construction of Indoor Stadium with all Amenities at Sahakaranagara in Ward No:08 Kodigehalli Sub Division.
Agency : Sri.Abbu Sambasiva Reddy, #1-B-3, Sree Arcade Layout, 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.
Customer's Reference : EE(Project)/Ynk Zone/WO/114/2017-18
Date of Receipt : 11-10-21
Customer ID : PCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 16/10/2021

Date: 16/10/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M15 | 09/10/2021 | 16/10/2021 | 151.97 X 151.71 X 149.43 | 23055 | 8.374 | 291.3 | 12.6 | 12.7 |
| 2 | PCC | M15 | 09/10/2021 | 16/10/2021 | 149.94 X 151.60 X 151.59 | 22730 | 8.732 | 290.3 | 12.8 | |
| 3 | PCC | M15 | 09/10/2021 | 16/10/2021 | 150.42 X 150.24 X 150.70 | 22598 | 8.542 | 285.7 | 12.6 | |

* The results obtained are satisfactory as per standard requirements.

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# TEST REPORT OF CEMENT CONCRETE CUBES

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the cube (kg) | Failure Load (KN) | Compressive strength (N/mm²) | Average Compressive Strength (N/mm²) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | [illegible] | M35 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 2 | [illegible] | M35 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 3 | [illegible] | M35 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-11-29-55 **Date: 02/11/2021**

Project Name : Construction of Indoor Stadium with all Amenities at Sahakaranagara in Ward No:08 Kodigehalli, Kodigehalli Sub Division.

Agency : Sri.Abbu Sambasiva Reddy, #1-B-3, Sree Arcade Layout, 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.

Customer's Reference : EE(Project)/Ynk Zone/WO/114/2017-18

Date of Receipt : 28-10-21

Customer ID : Flooring Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/11/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Flooring Concrete | M15 | 26/10/2021 | 02/11/2021 | 150.27 X 151.39 X 150.99 | 22749 | 8.374 | 276.9 | 12.2 | 12.2 |
| 2 | Flooring Concrete | M15 | 26/10/2021 | 02/11/2021 | 150.88 X 150.36 X 151.96 | 22686 | 8.732 | 280.5 | 12.4 | |
| 3 | Flooring Concrete | M15 | 26/10/2021 | 02/11/2021 | 151.43 X 151.07 X 151.65 | 22877 | 8.542 | 275.6 | 12.0 | |

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-11-29-55

Date: 23/11/2021

Project Name : Construction of Indoor Stadium with all Amenities at Sahakaranagara in Ward No:08 Kodigehalli, Kodigehalli Sub Division.

Agency : Sri.Abbu Sambasiva Reddy, #1-B-3, Sree Arcade Layout, 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.

Customer's Reference : EE(Project)/Ynk Zone/WO/114/2017-18

Date of Receipt : 28-10-21

Customer ID : Flooring Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/11/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Flooring Concrete | M15 | 26/10/2021 | 23/11/2021 | 150.64 X 151.91 X 149.90 | 22885 | 8.880 | 389.8 | 17.0 | 17.5 |
| 2 | Flooring Concrete | M15 | 26/10/2021 | 23/11/2021 | 149.58 X 150.72 X 149.97 | 22545 | 8.942 | 403.4 | 17.9 | |
| 3 | Flooring Concrete | M15 | 26/10/2021 | 23/11/2021 | 149.40 X 150.06 X 151.54 | 22419 | 8.128 | 391.4 | 17.5 | |

* The results obtained are satisfactory as per standard requirements.

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# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2021-11-29-55

Date: 02/11/2021

Project Name : Construction of Indoor Stadium with all Amenities at Sahakaranagara in Ward No:08 Kodigehalli, Kodigehalli Sub Division.

Agency : Sri.Abbu Sambasiva Reddy, #1-B-3, Sree Arcade Layout, 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.

Customer's Reference : EE(Project)/Ynk Zone/WO/114/2017-18

Date of Receipt : 28-10-21

Customer ID : Flooring Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/11/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Flooring Concrete | M15 | 26/10/2021 | 02/11/2021 | 150.68 X 151.04 X 151.25 | 22759 | 8.374 | 275.2 | 12.1 | 12.4 |
| 2 | Flooring Concrete | M15 | 26/10/2021 | 02/11/2021 | 149.83 X 149.34 X 150.57 | 22376 | 8.732 | 277.8 | 12.4 | |
| 3 | Flooring Concrete | M15 | 26/10/2021 | 02/11/2021 | 151.88 X 151.71 X 149.05 | 23042 | 8.542 | 290.5 | 12.6 | |

* The results obtained are satisfactory as per standard requirements.

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# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2021-11-29-55

Date: 23/11/2021

Project Name : Construction of Indoor Stadium with all Amenities at Sahakaranagara in Ward No:08 Kodigehalli, Kodigehalli Sub Division.

Agency : Sri.Abbu Sambasiva Reddy, #1-B-3, Sree Arcade Layout, 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.

Customer's Reference : EE(Project)/Ynk Zone/WO/114/2017-18

Date of Receipt : 28-10-21

Customer ID : Flooring Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/11/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Flooring Concrete | M15 | 26/10/2021 | 23/11/2021 | 151.23 X 150.29 X 151.66 | 22729 | 8.880 | 395.7 | 17.4 | 17.5 |
| 2 | Flooring Concrete | M15 | 26/10/2021 | 23/11/2021 | 149.98 X 149.58 X 150.62 | 22434 | 8.942 | 398.2 | 17.8 | |
| 3 | Flooring Concrete | M15 | 26/10/2021 | 23/11/2021 | 151.88 X 150.58 X 151.92 | 22870 | 8.128 | 394.0 | 17.2 | |

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager



****End of Report****

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